AMERICAN FARMER.

RUBAL ECONOMY, INTERNAL IMPROVEMENTS, PRICE CURRENT

" O fortunatos nimium sua si bona norint
" Agricolas." VIRG.

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AGRICULTURE

Extract from Darwin's Phytologia. Economy of Vegetation.

THE GROWTH OF SEEDS, BUD., AND BULBS.

 Seeds resemble eggs. 2. The embryon is of different maturity. The leaves visible in some seeds. 3. Why the plumuta ascends and the root descends. Is nourished by the seed-lobes, by the fruit. Becomes a dwarf if deprived of them. Melons and cucumbers are too luxuriant. Turnip-seed should be new.
4. Seeds have hard shells, have acrid rinds with bitter or narcotic juices, but pure starch may be procured from them. 5. Umbilical vessels, and roots of seeds Annual, biennial, and perennial plants. Reservoirs of nutri-ment in their roots. All plants are biennials. Bulbs and buds succeed each other many times before they flower. 6. Wheat. Stems and roots round the first joint. Has no nectory Is greatly increased by transplanting.

I. I. HAVING treated of the physiology, we now step forwards to consider the economy of

of agriculture and gardening.

After the production of the seed, or vegetable egg in the the pericarp of flowers, and its en-

sustained by adapted secretions from the vegetable blood, which is previously oxygenated in the bractes or floral leaves of many plants; in others the seed is itself in an air-vessel probably and lilies; though twofold in those of most other herbs and trees; whence the strictest ana-

logy exists between seeds and eggs.

2. In some seeds, when they leave the vegetable uterus this embryon is much more mature than in others. In the seeds of the nymphæa nelumbo the leaves of the future plant were seen so distinctly by Mr. Ferber, that he found out ble, as in the kernel of the walnut, and the seed much. of the garden-bean. So in the animal kingdom If the seed be deprived of these cotyledons, tic juices, as the horse-chesnut, acorn, apricos,

ens of pheasants, quaits, and patridges, can duce a dwarf plant from three to nine times less use their eves, run after their mothers, and peck than the parent. Hence the seeds of plants, their food, almost as soon as they leave their which are liable to produce too vigourous roots, shell; but those of the linnet, thrush and black- and thence have not time to ripen their fruits in bird, continue many days totally blind, and can the short summers of this climate, or which fill only open their callow mouths for the offered our hotheds with too luxuriant foilage, as memorsel.

es beneath the soil, the first three things necessary to its growth are heat; water, and air. Heat is the general cause of fluidity, without which no motion can exist; water is the menstruum, in which the nutriment of vegetable and animal bodies is conveyed to their various organs: and the oxygen of the atmosphere is believed to afford the principle of excitability so perpetually becomes a nutriment to the chick, after it has necessary to all organic life; and which ren-consumed the white, and eloped from its shell. ders the living fibres both of the vegetable and naturally applied to them.

Whence we may in some measure comprevegetation, as far as it may serve the purposes hend a difficult question; why the plume of a seed sowed upon or in the earth, should ascend, and the root descend, which has been ascribed to a mysterious instinct; the plumula is stimusuing impregnation by the farina of the an- lated by the air into action, and elongates itthers shed upon the stigma, a coagulated point self, where it is thus most excited; and the raappears on the seed-lobes according to the ob. dicle is stimulated by moisture, and elongates servations of Spallanzani, like the cicatricula on the yolk of the egg.

The seed continues to grow in the pericarp object, and the other downward.

The first source of nutriment supplied to the seminal embryon, after it falls from the parent plant, exists in the seed-lobes, or cotyledons, which either remain beneath the earth, and are Some of these nutritive materials are probably to be preferred to that which has been long kept.

the young of some birds are much more mature soon after the root appears, it will continue to at their birth than those of others. The chick-grow, but with less vigour, and is said to prolons, and cucumbers, should in this climate be 3. When the seed falls naturally upon the kept three or four years; by which part of the earth, or is buried artificially in shallow trench- mucilaginous, or farinicious, or oily matter of the cotyledons becomes injured or decayed, and the new plant grows less luxuriantly.

Another source of nutriment for the seminal embryon of many plants exists in the fruit, which envelopes the stone or seed vessel, after the growing fetus has burst into confinement, and so far resembles the yolk of the egg, which

When mature fruit, as an apple or a cucumanimal world obedient to the stimuli, which are ber, falls upon the ground, it supplies as it ri. pens or decays, a second source of nourishment. which enables the enclosed seeds to shoot their roots into the earth, and to elevate their stems with greater vigour. Hence fruits generally contain a saccharine matter, or juices capable of being converted into sugar, either by a spontaneous chemical process, as in baking sour apples; or by a vegetable process, as in those sour pears, which continue to ripen for many months, both before and after they are plucked from the tree, as long as life remains in them : that is, till they ferment or putrify; and lastly, by the digestive power of the young embryon, as above mentioned.

It the seed be deprived of the fruit, it will indeed vegetate, but with less vigour. Hince those for that purpose, as in staphylea, bladder-nut, permeated by the umbilical vessels of the em- seeds which are liable to produce too vigorous and tagetes, African marygold. At the same bryon plant, which absorb the mucilaginous, fa. shoots for this climate, as the seeds of melons time a reservoir of nutriment is secreted, and rinaceous, or oily matter deposited in them, as and cucumbers, should be washed clean from deposited in the seed-lobes or cotyledons, which the bean, pisum; or the seed-lobes rise up into their pulp, before they are hoarded, and preare single ones in the seeds of palms, grasses, the air along with the young plant, as in the served three or four years before they are sown kidney-bean, phaseolus, become seed-leaves, in hot-beds. But those seeds, which are sown and serve both as a nutritive and respiratory late in the season for the purpose of producing organ. These cotyledons or seed-lobes gener-winter fodder, as the seeds of turnips, should be ally contain mucilage, as in quince-seed; or collected and preserved with every possible adstarch, as in wheat; or oil, as in linseed .- vantage; and on this account new seed is much

by them to what plant the seeds belonged. The same in the seeds of the tulip tree, briodendron partly by the digestive powers of the young in Sect. VII. 2. 5. Some of these are surround-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process, and growth, by various contrivances, as mentioned partly by the digestive powers of the young in Sect. VII. 2. 5. Some of these are surround-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. Amæn. Acad. V. VI. No. 120. plant, as appears in the process of germi-tulipiferum. seed of trembling grass, he discovered by the these reservoirs of nutriment are hence per- peaches, nectarines, nuts, cocoa-nuts Other microscope a perfect plant with roots sending forth two branches, from each of which several leaves or blades of grass proceeded Microsc. While in other seeds the corcult converted into a sweet chyle for the nourishment are nence perpeaches, nectarines, nots, cocon-nots. Other seeds are furnished with an acrid covering to of which is probably absorbed unchanged by the prevent the depredation of insects, as the peel lymphatics of the young embryon, and a part of oranges, and lemons, the outward husk and it converted into a sweet chyle for the nourishment are nence perpeaches, nectarines, nots, cocon-nots. Other seeds are furnished with an acrid covering to of which is probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the pourishment are nence perpeaches, nectarines, nots, cocon-nots. Other seeds are furnished with an acrid covering to of which is probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the probably absorbed unchanged by the prevent the depredation of insects, as the peel lost of the prevent the depredation of insects, as the peel lost of the prevent the depredation of insects, as the peel lost of the prevent the depredation of insects, as the peel lost of the prevent the depredation of insects, as the peel lost of the prevent the depredation of the prevent the preve lum or heart only of the seed is distinctly visi- ment of the chick, when it has acquired a sto- the skin of mustard and rape seed; other seeds for the same purpose abound with bitter or narcoor which is soluble in water.

absorbs the nutriment laid up for it in the seedlobes by vessels, which permeate them for that grow in the ensuing spring. purpose, and have been termed umbilical vesnourishment; and expands its leaves in the air others are produced in one summer, and flour as an organ of respiration.

Those plants, which are usually termed anyear in which their seeds are sown; as barley, oats, and a variety of garden flowers. These nevertheless in accurate language should be termed biennials, because the seed in this climate is produced in one summer; and the embryon plant becomes mature in the next; as the seed is generally preserved in our granaries or seed-boxes, and not committed to the ground till the ensuing spring; for many of more perfect bulb annually, till it flowers, I these vegetables are not natives of this climate, believe, on the fifth year. It then produces a and would perish if the seeds were sown in au-flower, and also one perfect bulb, which tlowtumn, when it is naturally scattered on the ers the next year; and some other less perfect earth.

plants, differ from the former, first in the time of sowing the seed, which is generally in the early autumn, as soon as it is ripe, as of turnips, carrots, wheat; and thus these produce their flow- curs in other vegetables, as in apple trees; and which has given them the name of biennials. organs, and a consequent seminal progeny, till See No. 111. 1 and 7 of this section. Many of these plants, perhaps all of them, lay the twelfth or fourteenth generation of the bud up a reservoir of nutritious matter during the from the seed; each of those buds nevertheless summer or autumn in their roots. This nutri-producing one principal bud annually more perment is secreted from the vegetable blood, fect than itself, and many lateral buds less per which is previously oxygenated for that pur- fect than itself; that is, at a greater distance pose in the large leaves, which generally sur from that state of maturity which enables it to round the caudex of the plant, as in turnips and form a flower. This art of distinguishing the carrots. These leaves survive the winter in greater or less maturity of buds is a matter of many plants, which the more succulent stems great importance in the management of fruitprobably would not; and the nutriment depo trees, as in many of them the central bud besited in the root is expended in the growth of comes a spur one year, and flowers the next; the stem and the production of seed in the en- and the lateral buds one or two years aftersuing spring. As in these vegetables one of our wards, as will be mentioned in Sect. XV. on summers is too short for their growth from the the production of fruit. seed to the fructification; and it is for this reservoir of nutriment that these plants are gen-reservoir of nutritious juices deposited in the erally cultivated.

when first raised from seed, are many of them rots; but which is attended with other circum some years before they produce flowers. Some statices peculiar I suppose to the grasses, and of them form bulbous roots, as the tulip, hya- other plants, which possess only one cotyledon cinth, onion, which are three or four years be- or seed lobe. The early leaf, which surrounds the fore hey flower, during which time I believe first joint of the stem, withers as the spring adall the bulbs die annually, producing one larger vances; in which joint it had previously depositpotato-roots raised from seed, which do not which surrounds the first joint of the stem with flower as I am informed till the third year, and in the earth, a circular set of new stems issue then only those which seemed of stronger or adhering to it, and a circle of roots below them forwarder growth.

branching roots; in some of these, as in seed ing the earth; and in this manner many stems are apple-trees, the flower is said not to appear till produced in the spring from one seed sowed in

cherry, many of which supply materials to the ten or twelve years after the seed is sown; the the autumn preceding; though in some kinds of shops of medicine, and may supply nutriment buds nevertheless annually dying and producin times of scarcity; as the starch, which they ing other buds over them, perhaps more perfect contain, may be procured by grating them in- ones, as they acquire after a few years the to cold-water, and washing away the mucilage, power of producing sexual organs, and in conand the poisonous material, which adheres to it, sequence a seminal progeny. In these perennial herbaceous plants and trees a magazine of 5. The plumula of the seed or embryon plant, nutriment is provided in their roots or sap wood, to supply the new buds, which are to

Whence it appears, that all the vegetables of sels; and afterwards shoots its roots down into this climate may be termed biennial plants; as the fruit, or into the earth, in search of other the seeds of some, and the buds or bulbs of ish and die in the next; those which are called annuals or biennials leaving behind them a future nuals, produce their flowers and die in the same progeny of seeds only; those, which are term ed perennial herbaceous plants, leaving behind them the first year or two a progeny of bulbs or root-buds only, and afterwards a progeny of seeds also; while the perennial aborescent vegetables leave behind them a progeny of buds only for several successive years, and afterwards a progeny of both buds and seeds.

Thus the bulb from a tulip-seed produces a bulbs, which are succeeded by more perfect Those which are usually termed biennial ones annually, till they also flower Whence I conclude, that no tulip bulb flowers till the fourth or fifth generation.

It is probable, that a similar circumstance oc-

6. In wheat there exists about the caudex a autumn for the purpose of raising the stem in But those plants, which are termed perennial, the ensuing spring like that of turnips and caradhering to the caudex or base of it. These

wheat the whole process of the seed rising from earth, and producing other stems round the orincipal one, and of ripening its seeds, may be performed in one summer even in this north. ern climate.

Another peculiarity attends the growth of wheat and other grasses; the leaf, which surrounds and strengthens the stem by its foottalk, deposits at every lower joint a saccharine matter for the purpose of nourishing the ascending part of the young stem; and in the uppermost joint, I suppose, to serve instead of honey for the stamens and stigmas, as their flowers have no visible nectary; and as the scales of the flower may with good reason be esteemed a calvx rather than a corol, according to the opinion of Mr. Milne; as these scales attend the seed-vessel to its maturity, which the corol does not. Milne's Botanical Dict. Art. Gramina.

Owing to this secretion of saccharine matter at the foot-stalk of every leaf, and its collection round the joints of grasses, it happens that when these joints are surrounded with moist earth, and are placed but a certain depth from the air, that new buds will put forth round these joints, and strike their roots into the soil .-Whence the agrarian husbandmen may derive great advantage from transplating his wheat, after it has produced a circle of new stems from the first joint of the straw; for if he then parts and replants them an inch or two deeper in the ground, so as to cover the first joint of each of these additional stems, he may multiply every one of them four or six times, and thus obtain ers in the second year after the seed is sown, that the buds of these do not produce sexual twenty or thirty stems from one original seed.



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A transplanted root of wheat described in articles 3 to 7-a the seminal root, b the coronal root, a b the than that of the preceding year, and perhaps ed a saccharine juice, and probably some new elongated caudex, c g the first stem, c d the first so ne smaller ones. all which annually increase embryon buds were at the same time generated leaf, of a secondary stem. All these existed before in size till they flower. The same occurs in in the caudex; for through this withered leaf, transplantation. The secondary stem was then cut off at f, and the plant was buried in the soil as deep is the letter f, where it was cut off. Afterwards the stem which was lopped, had put forth a new caude x or root-scoin at h; which had produced three new stems at i; and other new ones, as it approached nearer the Other perennial plants have palmated or new buds rise into air, and shoot heir roots into surface, at k and l. As these leaves advanced into

(To be continued.)

Philadelphia County

Agricultural Exhibition and Fair.

In conformity with an act of the Legislature of Pennsylvania, the Philadelphia Society for promoting Agriculture will hold their First Annual Exhibition and Fair on the 4th and 5th days of June next, at the houses of John Elliott and George Ludwick, in Blockley Township, when the following premiums will be distributed.

NEAT CATTLE.

For the best bull, not more than 4 nor less than 2 years old \$ 50 next best next best For the best Bull Calf, not more than 12 nor less than 6 months old next best next best next best For the best Cow, not more than 7 nor less than 3 years old

next best For the best Heifer, not more than 3 nor less than 1 year old, with or without Calf

next best next best next best

next best

For the best | effer, not more than 3 years old, which shall have calved twice, reference being had to ber offspring

For the best Heifer, not more than 12 nor less than 6 months old

next best nex best

next best For the best Bull of Teeswater or Durham blood not more than 2 nor less than 1 vear old

For the best Bull, of Devon blood, not more than 2 nor less than I year old

For the best Heifer, of Teeswater or Durham blood, not more than 3 nor less than I year old

For the best Heifer, of Devon blood, not more than 3 nor less than 1 year old

For the best Ram, not more than 3 nor less than 1 year old next best

For the best Ewe, not more than 4 nor less than 1 year old next best

For the best Ram Lamb, not more than 12 nor less than 3 months old

next best n x! best next best

For the best Ewe Lamb, not more than 12 nor less than 3 months old nexi best

For the best Ram, of Dishley blood, not more than 4 nor less than 1 year old

For the best Ewe, of Dishl-y blood, not more than 4 nor less than I year old For the best R m, of Southdown blood, not more

than 4 nor less than 1 year old For the best Ewe of Southdown blood, not more

than 4 nor less than I year old For the best Merino Ram, not more than 4 nor

less than I year old For the best Verino Ewe, not more than 4 nor less than 1 year old

For the best Broadtail Ram, of Tunisian blood. not more than 4 nor less than 1 year old For the best Broadtail Ewe, of Tunisian blood, not more than 4 nor less than 1 year old

HORSES

For the best Stallion, fitted for the road or draught, not more than 12 nor less than 3 years old

For the best brood Mare, not more than 7 nor less than 4 years old

SWINE. For the best Boar, not more than 4 nor less than I year old

For the best Sow, not more than 4 nor less than 1 year old

810

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For the best Pigs, not less than five in number not more than 9 nor less than 3 months

OXEN.

For the best yoke of Working Oxen, not more than 7 nor less than 4 years old (reference being had to their PERFORMANCE IN

20

10

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40

20

THE PLOUGH)
For the best Ox, not more than 8 nor less than 30 5 years old

For the best Steer, not more than 5 nor less than I year old

5 All Breeding Animals which shall have received premiums at the Exhibition, will be required to remain in Pennsylvania one year thereafter.

BUTTER AND C EESE.

For the best fresh Butter, not less than 25 lbs. made in Pennsylvania

For the best Cheese, not less than 100 pounds, made in Pennsylvania

For the best preserved Butter, not less than 30 pounds, made in Pennsylvania, and which shall have been kept at least 3 months

For the best Maple Sugar, not less than 100 lbs For the best Pot or Pearl Ash, not less than 200 pounds

IMPLEMENTS OF HUSBANDRY AND USEFUL INVENTIONS.

Premiums will be distributed for improvements in Ploughs, Harrows, Fans, Drills, Chaffcutters, Threshof the provisions of an act, entitled "An Act for the promotion of Agriculture," &c.; who shall have powas shall tend to facilitate the operations of Husbandry, advance the cultivation of the soil, or add to the convenience or comforts of life.

HOUSEHOLD MANUFACTURES.

20 For the best Linen Cloth (for shirting or sheeting) 1 yard wide, not less than 25 yards long 20 second best

For the best Linen Diaper, 5-8 wide, not less than 30 yards long

10 For the best Flannel, 7-8 wide, not less than 4 yards long second best For the best Carpeting, 4-4 wide, not less than

3 yards long second best For the best Coating, 3-4 wide, not less than

20 yards long For the best Woollen Cloth, 3-4 wide, not less than 20 yards long

second best For the best double milled Kersey, 3-4 wide, not less than 20 yards long

second best For the best pair of Blankets, not less than 8-4 wide and 10-4 long

second best 10 For the best Woollen Knit Hose, not less than 6 pair in number second best

For the best Cloth made of Hemp, 1 yard wide not less than 25 yards long For the best Man's Hat, made of grass, straw

chip, or other vegetable material best Woman's ditto second best ditto

All articles of household manufacture, for which premiums will be awarded, must be the product of the city or county of Philadelphia.

CROPS.

The following Premiums for Crops will be distributed at the Annual Exhibition of 1823.

or the largest quantity of Flax on one acre	e \$50
best crop of Wheat on one acre	25
best crop of Indian Corn on one ac	re 50
best crop of Barley on one acre	20
hest crop of Potatoes on one acre	20
best crop of Mangel Wurtzel on 1	acre 20
best crop of Pumpkins, or Square on one acre, fitted to withstand	
winter	30
best crop of Cocksfoot (or Orch	pard 25

It is to be distinctly understood, that in every case when the Board of Directors shall consider the obj. ct presented unworthy of distinction, they reserve to themselves the right of rejecting it, although by literal construction it should be entitled to reward- and that in all instances where Premiums shall be demanded, they will require such evidence as to them shall be

As many of the most enterprizing agriculturists of the adjoining states are expected to attend the Exhibition, the farmers of Pennsylvania are respectfully invited to send to the Fair such FINE animals as they shall be disposed to sell-ample provision having been made for the accommodation of all that are likely to appear.

STEPHEN DUNCAN. JO IN HARE POWEL, MANUEL EYRE. WM. MASON WALMSLEY, REUBEN HAINES.

Committee.

At a special meeting of the Philadelphia Society for promoting Agriculture, held on the 5th December, 1821-it was resolved that a commettee be appointed at the next annual meeting, to consist of ten members, to constitute a Board of Directors for the execution er to hold an annual meeting for the distribution of prizes for the improvement of Farm Stock, as well as for the advancement of Agriculture and Hous hold Manufactures; and that the President and Vice Presidents, Secretary and Treasurer shall, ex officio, be members thereof; that the Board of Directors shall be equally divided into committees, to be called the Committees for Stock and Manufactures - that with 10 the Stock Committee shall rest all matters connected with, arising out of, or necessary for the distribution of premiums for Stock, and Farming Implements—that with the Committee for Manufactures shall rest all matters connected with, arising out of, or necessary for the distribution of premiums for Manufactures-that with the whole Board, or with such members thereo as they shall appoint, in like manner shall rest, all matters connected with, arising out oi, or necessary for the distribution of premiums for Products 10 of the Soil.

Extracted from the minutes. ROBERTS VAUX, Secretary.

John Scott, of Edinburgh, having bequeathed Four Thousand Dollars of the funded 3 per cen s of the United States to the corporation of Phila lphia, in order that the interest and dividences the roof be laid out in Premiums, to be distributed among ingenious men and women who make useful invertibles, accompanied by a copper midai inscribed, " To the most deserving"-and whereas the Select and Con n on Councils of the city of Philadelphia, by an ordinatee passed the 22d day of November, 18 1, have authozed the Philadelphia Society for promoting Agriculure to carry into effect the legacy of John Scott -it was resolved that the Board of Directors appointed for the execution of the provisions of an Act for the promotion of Agriculture, be the Committee to fuilith the intentions of the said John Scott.

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ON HEDGES.

[Communicated for the American Farmer by G. W. Jeffreys.]

BOSTON, 12th Aug. 1817.

My dear sir,

I duly received your favor of the 15th ultimo. Your plan of commencing a systematic planting of live hedges is equally wise and patriotic; useful and orna-

mental in itself, excellent as an example. In reply to your inquiries, I state that my experiwishes-and I am continuing to plant them. I have used the Washington, or American Thorn as it is called, which I obtained at Thomas Maine's Nursery, near Georgetown in the District of Columbia - and the English white Thorn, which I imported in seed from London. The former is more beautiful, and grows more rapidly-but its tendency is to spire upward charges included, less than § 5 per thousand; being instead of throwing out horizontal branches-for a seedlings of one year's growth. strong fence, to resist cattle, I think he English white Thorn preferable My mode of cultivation is simplefirst year cultivate the hedge row in potatoes-enrichwide-then plant the hedge in a sraight line, the plants eight inches apart protect them from cattle-culti-vating potatoes at least four feet on each side, and carefully keeping your plants clear of weeds when hoeing the potatoes-taking care to have a nursery of plants of equal age with those in the hedge so as al. ed, and permanently benefitted by gentlemen who, like the same age-this is very important. In trimming per, which deserves and will ensure success. encourage the lower horizontal branches by shaping it sloping, pyramidially on each side.

I am much impressed however with the idea of cedar hedges -an account of them may be found in a work, entitled Arator-written by John Taylor, of Caroline county, Virginia. A work, which contains more useful hints, (although written in a very obscure style) for farmers in your part of the United States, I think, than any work extant—were I a south-ern farmer, I should follow his suggestions, more implicitly than those of any person with whose experi-nce I am conversant. The work may be obtained at Georgetown, District of Columbia, or at Richmond.

With respect to soiling, it is a subject embracing so great a variety of considerations, that I cannot persuade myself to enter upon its elucidation. It would require a recapitulation of facts and reasonings so numerous, and minute, that I am sure your patience would fail to read if mine did not to write all the particulars which a full answer to your queries would require.

A great many hints on this and almost every other subject connected with farming and agricultural economy, may be found in "Bordley's Essays on Agrioulture," a work easily to be obtained in Philadelphia, and worthy to have a place in every farmer's library.

Soiling if commenced ought to be at first on a small scale-trials of plants which may be made to follow with you

Indian corn, buckwheat, oats, lucerne, cabbage, It is a most important system on farms comparatively sin. Il and where there is no pasture ground Its great this important source of national wealth and vigor .profit consists in the great quantities of manure it enables the farmer to raise, without much expense.

there was sufficient ground good for pasture and good orable body. for little else.

August, 2, 1818-Quiner.

large," I should put the hedge plants at six inches not almost destroyed. In this state of things your double, placed in the Quincunx order, is stronger .- which the surplus of materials will be consumed in a My hedges have been generally trimmed in the win- manner the most useful and creditable to the country ter, as the most leisure time-Some prefer the latter and in a form too that will enable this nation to meet of June, or beginning of July.

in 1808 nine feet high, having always been cut down to five feet-the average growth this year four feet-

I have about a quarter of a mile of the English white thorn. I imported the seed in 1797-it was greatly neglected till about three years past. Its average heighth is now nine feet, and is absolutely impervious to any thing but sparrows. A bull might as soon go through the side of a house.

I think I have told you before, that I greatly prefer the English white thorn to our American hedge ments in hedging have been successful to my utmost thorn, as it is called. The latter has a perpetual tendency to spire upwards, and is made to spread about the lower branches, and near the ground with great difficulty-cattle also browze upon it with less fear, than upon the former. I set out this year about a mile of hedge, and it was of this thorn-I imported it from Glasgow, in Scotland, and it cost me here, all jects of Great Britain.

I have no question that "hedges are cheaper and more durable" than any dead fences made of wood-But they require attention, perseverance and annual ing, deep ning, pulverizing the ground six or 8 feet provision against accidents and occasional failure,-Farmers and Planters relent at all cares not included in the old mill horse course, they have learnt from their ancestors; the progress of hedging will be therefore slow.

But the agricultural interest will be deeply indebt ways to be able to fill out deficiencies with plants of yourself, engage in new and wise courses with a tem-

It will give me great pleasure to reply to any of your inquiries, being

Very truly, yr. humble Serv't.

JOSIAH QUINCY.

GEO. W. JEFFREYS, Esq.

The Editor of the Farmer will please insert the accompanying Memorial, and oblige a subscriber and con-

Γo the honourable the Senate and House of Representatives of the United States in Congress assem-

The Memorial of " The American Society for the ncouragement of Domestic Manufactures."

Respetfully Represents -That although certain sections of the United States are maritime and commercial, the country is substantially agricultural; and that it is the wisdom of an agricultural nation to give the greatest possible value to the products of the soil This object must be accomplished either by consumption at home, or by sales in foreign markets. Of the consumption at home, that of food is the least important; that of Manufactures, converted from our raw msterials by the labour of the country, is of the highest conse-While a nation is able to give to its agriquence. cultural productions the greatest accession of value each other in succession should be made—what would it is highly improvident to send its raw materials be right in the climate here would scarcely answer abroad. From the neglect of this principle, all agricultural countries, neglecting manufactures, have had to encounter an unfavourable balance of trade, in olover, all sown and cut for fodder are among the best. their intercourse with those whose attention has been awakened, and policy governed by a due regard to These positions are submitted as sound principles of policy for the United States, and are therefore res-I should doubt the expediency on any farm where pectfully urged by your memorialists upon your hon-

The peculiar state of the civilized world at this time, admonishes us. that the foreign trade in provisions, bread stuffs and raw materials, on which we In countries where "hogs are permitted to run at have heretofore relied, must be greatly abridged, if A single row is easier wed ;-I apprehend a memorialists see no resource but in Manufactures, by and subdue the rivalry of other countries. They also

It is generally impervious to cattle, about mentous by the sagacity and vigilance, which Great Britain is now bestowing upon it. It is the trade with South America. That part of our hemisphere gives every thing that is asked, in return for fabrics which can with ease be furnished by the United States; and would in itself form an abundant market for all the manufactures which this country can preduce for exportation; while the probable extension of its resources, and its demand for the general productions of the United States, could not fail to elevate us above the most commercial nation of the earth. The advantage of an American citizen over a British subject in this trade, in the item of taxes alone, independent of the superior natural advantages we possess, would be decisive, did Congress only mete to this nation one half of the aggregate encouragement to enterprise and industry given to the sub-

> Your memorialists cannot refrain from inviting Congress to turn its attention to the oppressive weight of Exchange against the United States, in the trade with England, and the highly injurious consequences to result from it. The cause is too obvious may be certainly predicted. They beg leave to suggest the benefits that would accrue to this country, were the capital annually expended in Great Britain for manufactured goods for our consumption, employed at home in the manufacture of the same articles. Such a policy would, in the opinion of your memorialists, produce comfort and abundance at home tend to establish a sound and active currency throughout our country, and lay the surest foundation of an extensive foreign commerce.

Your memoralists respectfully represent to your honorable body, that they espouse the general plan of encouraging Manufactures by the project of a Tariff heretofore submitted to Congress; but should Congress in its wisdom deem its entire adoption inexpedient at this time, they then respectfully submit the policy and necessity of increasing the Tariff of Duties on woolen, flaxen, and hempen fabrics, iron, glass, paper, and fine cotton goods Your memorialists will not venture to designate the rates by which the increase of the Tariff might be graduated as to these articles; they will only presume to suggest, that the increase of duty, and other measures for the protection of our manufactures, should be adequate to produce the effect intended, and which they submit to the wisdom of their representatives in Congress It appears to your memorialists, that as to the articles above enumerated, the present Tariff is graduated at that point which deprives the nation of the public advantages of the system of manufacturing; and that the protection and encouragement is not sufficient to draw out fresh capital, or in any manner to create a competition among our own citizens. If it be a fact that some of the manufacturers of woollens, or other articles, now established, are able to thrive, it is an event highly auspicious to the nation, and will be haited by every patriotic citizen; while it furnishes the most satisfactory evidence, that Congress can incur no risk in making the system of manufacturing, general and permanent; more especially when the whole system is fortified by that wise maxim of political economy, that it is impossible for a nation to retrogade when it is judiciously and fully employed in the arts of peace.

Your memorialists beg leave further to represent, that the abolition of the credit for duties; a high duty upon sales at auction of all manufactured goods, whether foreign or domestic; and a declaratory law requiring the officers of the customs to charge a duty on the bounties allowed by foreign countries upon articles exported to the United States, as a part of the original invoice value, would essentially advance the revenue of the United States, and promote the objects of this memorial.

The arguments which support the first and second of With respect to "the appearance of my hedges"—
I have about a mile in length, of the Washington of this country at this moment, peculiar in itself, ble body, and those which support the third, are too important in its probable results, and rendered mo-

fact to the notice of Congress, that there is no other country on the globe, within the knowledge of your memorialists, that allows a credit on duties. But your attention is more especially invited to a consid defence, and I eration of the many millions of United States capital, where it is due. which by this system of extended credits, are rendered unavailing to the Treasury, but most profitable employed in the hands of foreign merchants and foreign manufacturers; it having been ascertained that about three fourths of the manufactured goods im-

From the prevailing system of foreign manufactured goods on the consumption of the country, through need only point your attention to its ruinous effects on the regular trade of the country; the introduction and distribution, by this means of spurious and simithe surplus and injured productions of foreign work shops, to the manifest injury of our own manufac-tures, the means afforded to foreigners to defraud the revenue, and the obviously demoralizing effects of this system of trade in every point of view, without its producing any advantage whatever to the nation.

With regard to foreign bounties, if a check be not put to this system, by the imposition of a duty on such bounties as a part of the invoice value, it may be in the power of foreign countries effectually to evade the revenue laws, and destroy the infant establishments of a rival nation; and no wisdom in the country thus practised upon could avert the fatal effects of such a device.

Your memorialists respectfully represent the fact to be, that the United States are now practised upon

extensively in this way. Your memorialists beg leave further respectfully to represent, that in their opinion the trade in silks,

Industry, into serious consideration, and grant such relief, as you may deem proper.

WILLIAM FEW, President.

P. H. SCHENCK, Secretaries.

On the equitable principle-audi alteram perteme we shall present in our next, the other side of the pic ture from the pen of a distinguished member of the Board of Trustees of the Massachusetts Agricultural Edit. Am. Far.

FOR THE AMERICAN FARMER.

Defence of the Weeping Willow.

I was sorry to see in your paper, No. 41. vol. the dead. "The willow waving o'er the finer essences from Jessamine, by laying the flow-stone," and that it was admitted in miniature ers between flocks of cotton that have been oiled forms to the very pulse of the heart, embellished with the oil of Bene, which extracts and retains the effluvia. The valuable oil or attar of Roses is a secret preparation which I believe is not obtained from val with time. How great was my surprise to flower expands.

sickness and consequent death. You will ex

ported into the United States, come in upon foreign not the willow which in part corrects this hu-stinks with the myriads of rose bugs that feed midity by its great absorption of waters, bear in general upon them. A calculation of those credits, made on a continu- the blame of the soil. It must be granted that ed succession of importations, would give results the willow throws off more trash, than some well worthy the most anxious attention of your honother trees, but this is not more unbeathy, vet it is much easier removed by a rake than most other kinds. Let not then the willow bear the medium of auctions, many very serious evils have the blame, that should be bestowed on laziarisen, which can only be remedied by an act of Conness or uncleanliness. In the next place I as-These evils have heretofore been detailed in sert that the willow as a genus furnishes us numerous memorials to your honorable body, and we with the very best substitute for Peruvian bark ant communication is earnestly recommended of any known vegetable (not excepting the red wood or cornus seriaca.) I ask then in the lated fabrics; its facility of forcing upon the market name of chemistry, botany, and medicine, how can the effluvia of so salutary a tree be noxious? mation, in answer to the many inquiries made and we may say with the late Dr. Huchinson, for the ensuing season. (a good chemist,) " from the fragrant rose to lectures about low places, near Philadelphia lowing course to be pursued——
becoming more unhealthy by removing the trees. Some few trees may be suspicious even 20th April and the 10th May.—Last year I beand other fabrics, from beyond the Cape of Good not introduced about houses,—the Rus Vernex, best—the difference of climate must necessari-Hope, is peculiarly injurious to this country, and that or poison ash is suspicious—and I think I have ly regulate the time of sowing, which a little good policy dictates that there should be a material read in the New York Medical Repository a experience will soon teach. the interests of the revenue will be greatly promoted by consider any sour seed;—never sow the seed by causing any increase of the Tariff, to take effect first settlers introduced into Jersey with ingrey memorialists pray, that your honorable body will take the subject of due protection to National Industry, into serious consideration, and an appear charging the Frevet neages, which the grown on the same soil—and above all, get juring the health of the inhabitants. The efficient seed—I know an instance the last season, where the Mill-berry or Negro-head, as it is generally called, destroyed a whole crop. It industry, into serious consideration, and make the subject of due protection to National Industry, into serious consideration, and make the subject of due protection to National Industry, into serious consideration, and make the subject of due protection to National Industry, into serious consideration, and make the subject of due protection to National Industry, into serious consideration and make the subject of due protection to National Industry, into serious consideration and make the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry, into serious consideration and the subject of due protection to National Industry. deliction-as to the second, it is a mere mat- White Hall,ter of taste, so that one may prefer the wai-

make a deleterious compound.

* The essential effluvia of most leaves and trees, Ed, a deadly blow, aimed at my favorite tree, may be distilled as spirits of turpentine from pines -oil of Sassafras from Laurus Sarsopes, but the I mean the Babylonian Willow. When I re-effluvia of flowers can seldom bear the fire without flected, on its being the sacred costodiator of their destruction. It is said that the French get the

As to credits on duties, we respectfully submit the find it charged with producing noxious vapours, and hence the third kind proceeding from flowers is often injurious as has been proved from flowers cuse me therefore in saying a few things in its in close rooms. I think therefore that orchards defence, and let the javelin of death fall too near a house are injurious, and the chesnut tree in bloom or the locusts may do ten times In the first place then, I may remark that the injury of willows. Trees without odorife-the willow grows most thriftily in low damp rous flowers are therefore preferable. The grounds, and is planted almost always in such hedge above mentioned not only commands the places, which are generally unhealthy. Let olfactory nerves whilst in bloom, but on decay

ARBORIPHILLUS.

FLAX.

From the New-Jersey Eagle.

The following interesting and importto the attentive perusal of our readers.

Mr. Kinney.

I beg of you to publish the following infor-Chemistry ranks all trees nearly alike, as to by letter and otherwise in relation to the culthe gasses, there can be no suspicion from those tivation of flax, to enable the farmer to prepare

The land upon which I cultivated flax the the deadly night shade, all conspire in renova- last season was reclaimed salt meadow lying opting the air," and I may add from the lofty posite Newark-From the experiments made poplar, that bathes in the clouds to the low the last year, and the best information I have ly willow that laves in the stream.* Dr. been able to obtain from practical farmers, and Rush has said something in his first works or writers on husbandry, I recommend the fol-

in this clime, where we are not in danger of gan as early as the 30th March and continued touching the Manaheneal of the west, or the until the last week in May, but the lots sown Bohan-upas of the East Indias, but they are between the 20th April and 10th May were the

effluvia of the leaves and body-thirdly the will pay well to get your seed from R. M. & J. adventitious volatile effluvia of the flowers :* Russel, flax seed merchants, in New York, corof the first I defy chemistry to give us any pre- ner of Broad and South streets, near the

3. If you wish to raise a crop of fine flax, nut and hickory, and another pines and cedars which will pay better than a crop for seed, whilst either might be unpleasant to a third, sow as near as may be, & bushels to the acrebut their light flavors cannot be injurious but by If for seed, then from three pecks to a bushel disgust. All very strong essential smells are -I would recommend to every farmer that somewhat injurious I presume where they are can do it, to raise at least ten acres in flax ; to so close or powerful as to command the nerves ; sow 8 acres at the rate of two bushels per acre. and the remaining two acres for seed-he can * Trees expine oxygen, in the day with few excep-then at another season, change his seed with the tions, and not a sufficiency of other gasses at night to flax seed merchant-sow clover, timothy or other grass seeds with your flax seed .-

4. If you cultivate for fine flax, then as soon as the Bolls or Capsules are formed and while they are yet in the milk, the crop must he pulled and spread thin upon the ground. If the flax is left to grow till the seed is ripe, the harle or fibre is too coarse to make fine linen. and cannot be made as white by bleaching .- If you cultivate for seed, pull your flax as soon as I hesitated not to consider its standing as coe- the flower petals, but from the calyx, just before the the leaves begin to fall, and the scalk shows a bright yellow colour and the boils are turned a

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little brown-when the flax is lodged it should \\$15 per ton is be pulled immediately, and great care is to be taken in sorting the different lengths, to prevent I paid in cash, (the farmer waste in dressing and hacking or hetcheling as saves it by his own labour.) it is called .---

5. The crop after being pulled and spread thin on the ground, must be turned from time to time until it is quite dry-If it is put up green or damp or the bolls not perfectly dry, it will not clean so well, and is liable to ferment Drying, bundling and cartand injure-you will hasten the drying of it by standing it upon the butt, loose; and turning it occasionally inside out.

6. The crop when sufficiently dry, should Leaves clear profit on 10 acres, be tied up in bundles or sheafs and taken to the barn or other place to be kept dry .- Each make as much out of any other article? bundle should weigh about two pounds, particular attention should be paid to this, for it will facilitate the dressing, as the machine will take thro' at one time, a bundle of about two pounds weight spread out thin, and three of those bundles in a minute, the tender of the machine therefore has very little time to regulate the The following items on the management of size of his bundles-

7. The flax thus prepared is dressed in a machine without rotting or wretting, and when dressed can be rendered by every farmer's wife, perfectly white, resembling floss silk, by following the directions that will be given-the machine will dress hemp and flax wretted or un- male are the Byfield breed; the spotted female.

this way, so that the owner of the machine is equal disposition or propensity to fatten, with a able to give the farmer as much clean flax as he hardiness of constitution that is wanting in the can procure in the old method, the flax is strong- Byfield breed. I have thought them better nur er becau-e unwretted, and one moments reflection ses, and more prolific-you wish me to give you will show the advantages that result to the far- my method of treating them, which I presume mer-he gets as much flax as he can get in the old way -he saves the labour of wretting, and of the coun ry and is as follows, viz after they are avoids the risk of ruining his flax, and also the farrow'd, the dams are fed with the wash or labour of cleaning it. The flax is better, and swill from my house; and from the house or rendered fit for immediate use, without bleach- cupied by the men that work on my farm, mix'o ing in the old way ; and if the farmer has any with boil'd potatoes, skim milk and butter milk, to sell, will readily bring him one third more stirring in meal and bran, when the liquor is than the flax prepared and cleaned as hereto-quite hot, good wheat Bran or Shoris I prefer fore done.

dition, will yield an average of one and an half when they are fed principally with skim milk, tons of plant or stem, and without it is in good butter milk, and bran or shorts occasionally order, ought not to be sown with flax. There mixing some of the pot liquor, as it is often callis a market at Patterson, for more than New-ed-once a fortnight they are wash'd clean ry County, Maryland." Jersey can raise, beyond what is required for with the soap-suds left on washing days; that your flax land in the spring, except with lime, mort, shells or leeched ashes-top dressings after that, Juring showers in warm weather they soon after the plants appear, of plaster, where have fine wood ashes sifted on them, and thrown beneficial; and an experiment in Connecticut a ley that induces a disposition to rub them-has proved, that salt, at the rate of 5 bushels to selves clean and white, keeps the skin loose, 4th. The stated meeting the acre, is a good manure. I think more and very much promotes the growth-they are wou d be better. Some of the best flax I had well litter'd with straw in their lodging rooms. the last year, was sowed on a green sward, kept dry, and in cold weather shut so close athere were fewer weeds, which are the great to keep out the cold wind and rain-they are enemy of flax.

8225

Deduct, at the rate which Ploughing 10 acres, and sowing 20 bushels of seed, harrowing, &c. at \$3 per acre. 830 20 pushels of seed, at \$1.50 20 Pulling and spreading, at \$3 ing to the barn, at \$1 50

per acre, 15-105

120 That is, \$12 per acre. Can the Farmer ANTHONY DEY.

New-York, Nov. 30. 1821.

Management of Pigs.

Pigs, are extracted from a private letter from the pen of one of the most accomplishsta'e of Massachuse ts .- May 29, 1819.

"I have sent by the bearer the three pigs for your Baltimore friend, the white male and fewretted, and hemp at present bears a good price. Byfield and Bedford, with a small cross of the of the same have adopted the following con-8. A greater quantity of flax is obtained in Bakewell-the latter I consider, as having an is simila t that of person ge erativity this pr very much. When five or six weeks old some 9. I remark, that your land, if in good con- times sooner) they are taken from the dams, when they become too large to handle with ease. fed regularly, made to eat clean, never gorg'd-10. As to the profit in cultivating flax, take their food salted her not composed in part of the following statement :- Suppose each acre to pot liquor, in which salt Beet and Pork have yeld 11-2 tons. The owner of a machine can been boiled; after I commence fattening them afford, where flax brings 15 cents s pound, to in the fall of the year, they have once a month give 15 dollars a ton for the flax plant, as it a table-spoonful of Brimstone pounded fine, to the secretary at suitable public places in the comes from the field, threshed or not—say then each pig, and a month or six weeks before they county. And each vice-president shall assemthat ten acres produce 15 tons of flax plant at are killed, they are fed with scalded Indian ole the curators of his respective district, at

meal thick as for hoe cakes, and hard and whole corn, which serves to harden the pork, and is thought to improve the quality. In summer and during the season for weeds, they are fed with them, and occasionally with Lettuce, of which they are fond, this serves to keep them in health and promote their growth.

I emain respectfully, your humble servant. G***** P*****

"THE AGRICULTURAL SOCIETY OF MONTGO. MERY COUNTY, MARYLAND." Rockville, January, 19 1822.

SIR-Agreeably to a resolution passed at the ast meeting, of the Agricultural Society, of this county-I enclose to you a copy of the constitution which has been adopted, together with a list of the officers appointed by the Society .-You will oblige the Society, by giving it a place in the American Farmer.

I am sir in behalf of the hoard, your obedient ARCHIBALD LEE,

Corresponding Secretary. The undersigned citizens of Montgomery ed gentlemen, and systematic farmer-, in the county, being duly impressed with the importance of promoting improvements in Agriculture and rural economy, have associated under the sitle of "The Agricultura Society of Montgome? ry county, Maryland," and for the government

> Article 1st. All citizens of the county shall become members of the Society upon paying not less than one dollar to the treasurer and subscribing these articles, and every member shall pay not less than one dollar an uaily. All monies received by the treasurer shall be disbursed by the president and v c -presidents or a majority of them, in pursuance of appropriations by the board.

> 2nd. The officers of this Society shall consist of one president, four vice-presidents, and twenty-four curators, one treasurer, one corresponding secretary, and one recording secretary Increof one vice-president, and six curators, shall be selected from each of the present election districts, who shall forthwith organize themselves into a board to be denominated othe board of the Agrical ural Society of Montgome-

3d. The board shall meet at Rockyille quarfamily purposes. You ought not to manure practice is continued for three or four months, terly, on the first Mondays of January, April, August, and November, to which meetings every member of the Society shall have access. In the absence of the president the senior vice presiit will answer, and of ashes or soot, are said to be between their legs, which becoming wet makes dent present shall preside, and eight members

4th. The stated meetings of the Society shall be at Rockville, on the first Saturday after the second Monday in November, and on the first Saturday, after the first Monday in March, in each year.

5th. All officers of the Society shall be elected by ballot at the November meetings, and all vacancies shall be filled by the board.

6th. The president shall have power to call special meetings of the society by notice through such time and place as he may designate, at which meeting the senior curator shall preside in the absence of the vice-president.

7th. All honorary members shall be appoint ed by a majority of the whole board.

8th. Whenever the board deem it expedient they may purchase an Agricultural Library for the Society to be deposited with the recordin. secretary

9th. The corresponding secretary shall reduce to form, all reports that may be made to the board for the Society, correspond with other Societies and individuals on all objects of this institution, and transmit notices of al honorary appointments.

10th. The recording secretary shall attend all meetings of the Society and of the board He shall keep a faithful record of their proceed. ings and preserve in order all papers placed in his care by the president or the board. He shall take charge of whatever the curators may place in his hands, and keep a record of the names of the subscribers, as well as of all members of the Society.

11th. The treasurer shall keep a faithful account of all sums of money received, either 5th Rhemus Riggs, from members or contributors, with a list of their names and places of residence, a regular account of monies expended with receipts there- lst. Bernard Gilpin, for, furnish such accounts for the inspection of 2d. Thomas Gettings, the board at each quarterly meeting; and to the 3d. Thomas Stabler, Society, when so required, at their stated meetings.

12th. The curators shall collect such local information as they deem useful, specimens of grains, seeds, plants, manufactures, and what ever they may deem important, and they shall lodge the same with the recording secretary for the inspection of the Society. They shall, at as well upon those most easily made, upon the upon the natural growth of trees, plants, herbs and grasses, and upon minerals, streams of water, mills to be relied upon for supplies i dry seasons, and upon the grasses, seeds and implements of husbandry generally in use, and those they most approve, upon the dairy in all its branches, upon fencing and enclosures of wood, brick, stone, hedges.&c. and upon gardenreport upon the crops, fruits, seeding, spring and fall preparations of the soils, top dressing of and minera's upon the management of crops, to its cultivation. gathering them in, and the most economical decision snall be obligatory.

13th. Any citizen of Washington county, (D losts, &c. they being slow of growth, if soved .) may become a member of this Society on the after the middle of March; the seed should be conditions specified in the first article.

14th. All propositions for amending this contitution shall be laid before the Society at a tated meeting, and referred to the next stated neeting, and the corresponding secretary shall give notice thereof, to the vice-president, and parators of each district, and if approved by three fourths of the members present at the meeting to which it is referred, it shall become part of this constitution.

Roger Brooke, President. Charles J. Kilgour, 1st. Vice-President Thomas Davis, 2d. do. do. Basil Brooke. 3d. do. do. Thos. T. Wieeler, 4th do. do. Arch. Lee, Corresponding Secretary. J. M. Leach, Treasurer.

Goshen Curators. 1-t. Ephraim Gather, 2d. Edward Burgess, 3d. David Frame, 4th Lyde Griffith; 6th J. W Magruder.

Berrys Curators. 4th Henry Howard, 5th, R. Y. Brent, 6th R. B. Dorsey.

Ladock Magruder. Recording Secretary. Medleys Curators. 1st. William Dorne, 2d. Elijah Veevs, 3d. Daniel Trundle, 4th Solomon Davis, 5th E. W. Williams, 6th James Fletchall.

> Rockville Curators. 1st. G. C. Washington, 2d. Honore Martin, 3d J. C. Lackland, 4th George Magruder, 5th Thos A. Brooke, 6th Samuel Hamilton.

arrowed in with a pair of light harrows, paricularly when sowed with wheat or rve, as the round is often settled together, and requires posening, which is a benefit to the grain crop, and covers the seed, which would otherwise, in nany cases, be lost. As there has been of lat. or time, great complaint of clover failing, or ot standing as usual, I think it may be acounted for in two ways. First, the years 1819 ad 20 were very unfavourable both in winer and summer, to the growth of clover, but ve have no reason to be discouraged on that account, for the last summer the clover stood and grew as well as ever. Land which has been clovered and plastered for many years, becomes rich and full of grass roots, which the the former rotation of crops does not sufficiently eradicate, consequently prevents this tender tap rooted plant from thriving, and it has been found by experience that by cultivating almost any plant long on the same spot, it will exhaust nearly all the food necessary for its support, but would at the same time produce luxuriant crops of something else; hence the necessity of change; this is a subject long since well understood in England, and by many in this country, though they consider clover the most valuable of all their improving crops, yet they have to discontinue its culture a while when they discover the land to be what they call clover sick : an increased attention to manures or turning in green crops to enable us to take off one or two more root or grain crops in our rotation, will I think, enable us to raise clover as usual—the choice of seed should be carefully attended to, as by stacking it when in the straw a little too damp, the vegetating qualities may Inquiries have frequently been made of me ne destroyed, which is not often observed by the spring meeting report from each district respecting the culture of grasses, preparation of twose unacquainted with the circumstance, and upon the composition of manures most in use, the land, times of sowing, quantity of seed, &c. foul seeds, such as the Daisy or Richardson's and believing as I do, that the wealth and pros- pink and ripple grass—the former is by far the materials favorable for manures, upon the soils, perity of most parts of our state, much depends worst, being very injurious to both grain and

> There is a species of clover, called the tall observations, which may be of use to our Young or sapling clover, which has the appearance of the common red, but is much tailer and coarser, ripens about two weeks later-except its coarse-The culture of this valuable grass is so gen-ness, (which may be corrected by sowing six eve any instruction on that head, but as the to the common kind for sowing with timothy, as right understanding and culture of this grass, is they ripen together, and for improving poor

The quantity of seed above stated, is founded Previous to sowing this grass seed, have the on the supposition, that it is all covered either

On the Cultivation of various Artificial Grasses.

on the culture of artificial grasses, and not having had less than from 60 to 100 acres of artifand is esteemed and even sowed in some places ficial grass, growing for the last 17 years, has for pasture. afforded me an opportunity of making some Farmers.

RED CLOVER.

inggenerally. At the autumn meetings they shall erally known, that it may seem superfluous to or seven quarts of seed to the acre,) I prefer it grains, and grasses, upon the most approved so important to the Farmer, and as many are en- land, it is much the best, as it affords a greater keep of domestic animals during the seasons, tirely unacquainted with it, I thought I might covering to the land, and more enclosing parupon earths, and manures, animals, vegetables, in a concise way touch on the heads necessary ticles.

mode of conveying them to market, upon the land well pulverised by the culture of some by harrowing or by the winter frosts. roads and other facilities for transportation, up previous crop, or frequent ploughings, until the native grass is entirely destroyed, then take for horses, but for cattle it is too dry and bandalso report at both autumn and spring meetings, five or six quarts of good clover seed to the ing, is best suited to stiff moist lands but will upon the best systems of bushandry used in acre. and sow it any time between the 15th of gro well on high mellow land provided clov r their respective districts, including cleaning, February and the same time in August, on is sowed with it, as it retains the dew long and dia ming and irrigation of up-lands and low-lands. The board shall designate the periods of seed will do as well, if sowed with one of heat which would otherwise affect it.

and places of fairs, the articles to be shown, and Bennetts Drills. If the land is poor, chuse the This seed may very properly be sown on the premiums to be given. They shall appoint crop that will afford it the best p otection a- eat or rye at the time of sowing class, by three judg s for each class of articles, whose guest the sun, as ree, &c. and if rich, the crop mixing four or five quarts per acre with n, not which will smother it least in its mancy as wheat, would be a surer crop it sowed in the tailthought this crop of sufficient importance to but it is difficult to cure in wet weather. prepare the ground purposely for it by ploughing early in the spring and stirring it several times during the summer to pulverize the soil and destroy all the native grass, then sow about four or five quarts of good timothy seed to the acre, any time between the first of August and 20th of September, and barrow with a pair of light harrows as before. great care is necessary in procuring this seed as the germ being small and the buil or chaff large easily attracts moisture, which often produces fermentation, and destroys the germ the best fied-although there may be some vanity in the dejudges are sometimes deceived.

ORCHARD GRASS.

This grass looks much like timothy, except the head which divides into a number of little stems like blue grass; it is coarser and taller than the timothy, unless sowed thick which is a necessary precaution; it may be profitably sown with clover as they come early and ripen eating Bacon. together, and by not pasturing it too bare in the fall, produces in the spring the earliest pasture of any grass we have, and is much estated by those who keep Daries for producing the towns and the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated the lovers of Bacon in the United States, is his fail to continuous the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated to the lovers of Bacon in the United States, is his fail ture of any grass we have, and is much estated to the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continue the lovers of Bacon in the United States, is his fail to continu early grass butter, it has a large chaffy looking Dinner, these ashes will "eat up" (as the old ladies seed; but the light particles may be blown out, call it) a great portion of the fat in every piece and it will be necessary to sow from three fourths to extract, at least a part of that precious essence which one bushel of clean seed to the acre to be pro-fitable; the land should be prepared as for timo-thy or clover, and may be sowed on wheat or very good, but unnecessarily troublesome; for among express his profound gratitude to the numerous rye, either in the fall, winter or spring, but in all the varieties of Bacon, Burlington and Westpha the spring or fall it must be harrowed in; it may be also sowed with any of the spring crops as oats and barley; but if sowed in the fall not later than the 20th of September. I have cultivated it with nearly equal success, both fall, as it could be, and the management has been what I winter, and spring, and have had it on my farm have just stated. The best salt-beef also, which I about seven years, and think it very suitable have ever seen, was put into the aforesaid brine, as for a change occasionally, but the land ought to soon as the pork was taken out. be rich enough to produce at least five barrels of corn per acre.

MILLET.

Many persons of respectable standing have written very encouragingly about the profit and usefulness of this grain or grass, one of whom is Dr. Coleman of Virginia who says a bushel of seed will weigh about 53lbs, and separated from the bran will weigh 40lbs, and more natricious than the same weight of Indian corn: an account published in a Philad-lphia paper states the produce per acre to be about 40 bushels of seed and four tons of hay ; the right time of sowing is said to be about the first of May. I have not yet sowed any, but have frequently seen it growing, and am inclined to think favourably of its culture, especially as a spring crop, on lands intended for wheat in the fall, as it may be harvested in August. In this neighborhood I should suppose the best time to sow to be about the 20th of April, on ground well prepared and of fertility equal to producing six barrels of corn per acre, on which I would sow about ten quarts of seed, this I think is not too thick if hav is the object, but for seed eight quarts are sufficient. I am well satisfied

* Except lucerne or meadow oats; the former requires drill husbandry except in sandy lands, and bear an egg, cover them with it, let them re-the latter is rather coarse for hay.

If a permanent meadow is to be set, I have that the hay is preferred to timothy by horses,

ROBERT SINCLAIR.

MORE BACON.

MR. SKINNER,

Having had considerable experience, say nearly half a century, in all "the manipulations," (as Dr. M-e would probably call them) usually exercised upon that most delectable viand denominated " Bacon"-from the killing, cleansing, cutting out, salting, packing, curing, and what is better than all, masticating it, I believe myself tolerably well qualiclaration, to speak "understandingly," on the sub ject. Know then, my good Sir, that your corresponspoiling, or rather causing others to spoil, a quantity of that article which consitutes the staple dish of the Ancient Dominion. He is the less excusable in this particular, because he writes so feelingly on this subject, that I am confident he must be not only an amateur, but one of the cognoscenti both in making and

The neglect for which I now arraign him before all

VIRGINIANSIS PHILOPORCUS. December 21st, 1821.

RECIPES.

An excellent Recipe for curing Hams.

For ten llams; one pound of Saltpetre, two pounds brown sugar, three and an half pounds price \$120. Also, the celebrated Teeswater Bull of fine salt; mix all these together, and rub BERGAMI—to be sold or farmed out for the season. pounds brown sugar, three and an half pounds a tight cask, and let them so remain for three weeks. Then make as much strong pickle as will cover the hams; to which add three gallons of ley; boil and skim this pickle, and when it part of the United States, is cool, pour it over the hams, and let them remain in this pickle for three weeks more, then

Another.

For twenty-four hams; six pounds fine salt, three pounds brown sugar, or three pints molasses, one pound saltpetre; mix all these ingredients together, and rub each ham well with them. Pack them down in a tight cask, and let them lay five or six days, then take them out, turn them, pack them down again, and sprinkle them lightly with salt, let them remain five or six days more; make a pickle strong enough to main a month when they will be fit to smoke.

Another.

Four ounces saltpetre, one pound brown sugar, eight pounds coarse salt, four gallons waer, boil the whole together, and take off the cum as it rises. When the pickle is quite cold, pour it over the hams, and let them remain in it eight weeks, when they will be fit to smoke.

THE FARMER.

BALTIMORE, FRIDAY, FEBRUARY 1, 1821.

The printer, is just completing the republication of the first and second volumes, of this Journal, to supply the increased demand-as well as to replace the volumes, destroyed by the burning of the Book Bindery. To enable him to meet this expense the dent, Mr. John Darby, run the highly culpable risk of Editor, intreats the immediate discharge of all arrears by those to whom the work has been sent, in the assurance and on the confidence of immediate payment. Their compliance will moreover at this time be received as a gratifying evidence of their approbation of his labours. The Editor never desired the patronage of any who may imagine that they are not fully compensated by the contents of the work, neither does he think it generous or fair that any should avail themselves of its contents, without paying for them in advance that being expressly stipulated for, before they subscribed, and it is obviously more re sonable that an individual, should risk five dollars on the promise of the Editor to pay them value in return - than that he should run the risk and incur the expense of collections from all his subscribers - having subscribers, and correspondents who have paid him faithfully, and contributed, he might say almost every thing to the value of his Journal.-It is to their punctuality and to their communications almost exclusively, that he owes the honour of the following recent declaration by a senator of the United States, distinguished as an enlightened politician, practical Farmer, and in the worst of times -every inch a patriot. "I rejoice to find that this work, is so highly ap preciated-It is becoming the focus of the scattered information and improvements in Agriculture. I hesitate not to say that its countenance and general circulation will be a national blessing, and that ou as the projector, and permit me to add the judicious Editor, are entitled to the thanks of your country.'

STOCK TO BE SOLD.

A pair of fine YOUNG MULES, three years oldeach ham well with it, then pack them down in For sale also, a prize HEIFER, in calf by the Holderness Bull Columetts- for further particulars, enquire of the Editor. Also a few fine PIGS, of the best blood, for breeders-price for them, \$5 each on the farm, or \$20 for three, with house, feed, &c. for any

The Subscriber respectfully informs his friends and the public generally, that he still continues to attend drain them and smoke them with green hickory. to the pruning and planting of Fruit Trees of every description—making of Composition for the destruc-tion of Worms in Peach and other Fruit Trees—likewise Forsythe's. Composition for the Cure of Diseases and Injuries in Fruit Trees of all kinds.

JOSEPH HEUISLER, On Mr. Lorman's Lot, near the Medical College. N. B. Planting of Asparagus roots attended to.

Printed every Friday at \$4 per annum, for JOHN S. SKINNER, Editor, by Joseph Robinson, at the N. E. corner of Market and Belvidere-streets, Baltimore, where every description of Book and Job Printing is executed-Orders from a distance for Binding, with proper directions, promptly attend-